



Write the expressions using exponents

Grade 6 Exponents Worksheet

Write the following expressions using exponents.

For example, $8 \times 8 \times 8$ is written as 8^3 . You don't have to solve.

1) $45 \times 45 \times 45 \times 45$

2) $(-11) \times (-11) \times (-11) \times (-11) \times (-11) \times (-11) \times (-11)$

3) $\frac{2}{5} \times \frac{2}{5} \times \frac{2}{5} \times \frac{2}{5} \times \frac{2}{5} \times \frac{2}{5}$

4) $4.75 \times 4.75 \times 4.75 \times 4.75 \times 4.75 \times 4.75 \times 4.75 \times 4.75 \times 4.75 \times 4.75$

5) $3 \times 3 \times 3 \times 3 \times 3 \times 3 \times 3 \times 3 \times 3 \times 3 \times 3 \times 3 \times 3 \times 3 \times 3$

6) $(-0.7) \times (-0.7) \times (-0.7) \times (-0.7) \times (-0.7) \times (-0.7) \times (-0.7) \times (-0.7)$

7) $5 \times 5 \times 5 \times 5 \times 5 \times 5 \times 5 \times 5$

8) $1.3 \times 1.3 \times 1.3 \times 1.3 \times 1.3 \times 1.3 \times 1.3 \times 1.3 \times 1.3 \times 1.3$

9) $(-2.5) \times (-2.5) \times (-2.5) \times (-2.5) \times (-2.5) \times (-2.5) \times (-2.5)$

10) $4 \times 4 \times 4 \times 4 \times 4 \times 4 \times 4 \times 4 \times 4 \times 4 \times 4 \times 4$

11) $(-5) \times (-5) \times (-5) \times (-5) \times (-5)$

12) $\left(-\frac{2}{5}\right) \times \left(-\frac{2}{5}\right) \times \left(-\frac{2}{5}\right) \times \left(-\frac{2}{5}\right) \times \left(-\frac{2}{5}\right) \times \left(-\frac{2}{5}\right) \times \left(-\frac{2}{5}\right) \times \left(-\frac{2}{5}\right) \times \left(-\frac{2}{5}\right)$

Answers

1) 45^4

2) $(-11)^4$

3) $\left(\frac{2}{5}\right)^6$

4) 4.75^{10}

5) 3^{14}

6) $(-0.7)^8$

7) 5^8

8) 1.3^9

9) $(-2.5)^7$

10) 4^{12}

11) $(-5)^5$

12) $\left(-\frac{2}{5}\right)^9$